

Miami-Dade County, Florida

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

BOARD AND CODE ADMINISTRATION DIVISION

PRODUCT CONTROL SECTION

Laboratory Certificate



11805 S.W. 26 Street-Room 208
Miami, Florida 33175-2474
T (786) 315-2590 Fax (786) 315-2599

This certifies that Quast Consulting & Testing, Inc. located at 1055 Indianhead Dr., Mosinee, WI 54455 is an approved Testing Laboratory in accordance with Miami-Dade County Department of Regulatory and Economic Resources and Protocol TAS301-94, and is Certified to perform the following tests:

TAS100(A)
TAS201 (Exclude CBS Block Testing)
TAS202 (Exclude CBS Block Testing)
TAS203 (Exclude CBS Block Testing)
ASTM E1886
ASTM E1996
ASTM E2068
IAS Accreditation Report No.TL-358


Results of the above mentioned test shall be properly submitted to the Miami-Dade County Department of Regulatory and Economic Resources per TAS301-94, along with all other documentation required for the approval of products. Approved engineer(s) for this laboratory:

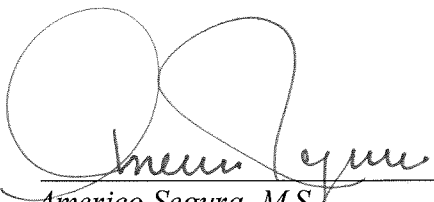
Brian M. Sasman, P.E.

This Certification and Registration Approved: July 18, 2019

This Certification and Registration Expires : July 08, 2024

Certification No. : 19-0320.01 Renews:18-1205.02


Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
Product Control Division


Americo Segura, M.S.
Quality Assurance Unit Supervisor
Product Control Division

The Miami-Dade County Department of Regulatory and Economic Resources reserves the right to remove this certification for non-compliance with rules and regulations as set by Protocol TAS301-94.



CERTIFICATE OF ACCREDITATION

This is to attest that

QUAST CONSULTING AND TESTING, INC.

1055 INDIANHEAD DRIVE
MOSINEE, WISCONSIN 54455

Testing Laboratory TL-358

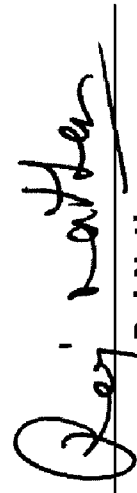
has met the requirements of AC89, IAS Accreditation Criteria for Testing Laboratories, and has demonstrated compliance with ISO/IEC Standard 17025:2005, General requirements for the competence of testing and calibration laboratories. This organization is accredited to provide the services specified in the scope of accreditation maintained on the IAS website (www.iasonline.org).

This certificate is valid up to March 1, 2020.



This accreditation certificate supersedes any IAS accreditation bearing an earlier effective date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See www.iasonline.org for current accreditation information, or contact IAS at 562-364-8201.




Raj Nathan
President



SCOPE OF ACCREDITATION

IAS Accreditation Number	TL-358
Company Name	Quast Consulting and Testing, Inc.
Address	1055 Indianhead Dr. Mosinee, WI 54455
Contact Name	Brian M. Sasman Vice President
Telephone	(715) 302-1934
Effective Date of Scope	June 23, 2019
Accreditation Standard	ISO/IEC 17025:2017

Structural

AAMA 450	Specifying windows and doors using performance standards
AAMA 501.1	Standard test method for water penetration of windows, curtain walls and doors using dynamic pressure
AAMA 501.2	Quality assurance and diagnostic water leakage field check of installed storefronts, curtain walls and sloped glazing systems
AAMA 501.4	Recommended static test method for evaluating curtain wall and storefront systems subjected to seismic and wind induced interstory drifts (501.4) & recommended dynamic test method for determining the seismic drift causing glass fallout from a wall system (501.6)
AAMA 501.5	Test method for thermal cycling of exterior walls
AAMA 501.7	Recommended static test method for evaluating windows, window wall, curtain wall and storefront systems subjected to vertical inter-story movements
AAMA 502	Voluntary specification for field testing of newly installed fenestration products
AAMA 503	Voluntary specification for field testing of newly installed storefronts, curtain walls, and sloped glazing systems.
AAMA 513	Standard Laboratory Test Method for Determination of Forces and Motions Required to Activate Operable Parts in Operable Windows and Doors in Accessible Spaces
AAMA 520	Voluntary specification for rating the severe wind-driven rain resistance of windows, doors and unit skylights



SCOPE OF ACCREDITATION

AAMA 910	Voluntary "life cycle" specifications and test methods for aw class architectural windows and doors
AAMA 1302.5	Voluntary specification for forced-entry resistant aluminum prime windows
AAMA 1303.5	Voluntary specifications for forced-entry resistant aluminum sliding glass doors
AAMA 1304	Voluntary specification for forced entry resistance of side-hinged door systems
AAMA 1701.2	Voluntary standard for utilization in manufactured housing for primary windows and sliding glass doors
AAMA 1702.2	Voluntary standard for utilization in manufactured housing for swinging exterior passage doors
AAMA 1704	Voluntary standard egress window systems for utilization in manufactured housing
AAMA/WDMA/CSA 101/I.S.2/A440	North American Fenestration Standard/Specification for windows, doors, and skylights
AMCA 540	Test Method for Louvers Impacted by Wind Borne Debris
AMCA 550	Test Method for High Velocity Wind Driven Rain Resistant Louvers (Section 8.0 only)
ANSI/DASMA 108	Standard Method for Testing Sectional Garage Doors and Rolling Doors: Determination of Structural Performance Under Uniform Static Air Pressure Difference
ANSI/DASMA 115	Standard Method for Testing Garage Doors: Determination of Structural Performance Under Missile Impact and Cyclic Pressure
ASTM E283	Standard test method for determining rate of air leakage through exterior windows, curtain walls, and doors under specified pressure differences across the specimen
ASTM E330	Standard test method for structural performance of exterior windows, doors, skylights and curtain walls by uniform static air pressure difference
ASTM E331	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by uniform static air pressure difference
ASTM E547	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by cyclic static air pressure difference



SCOPE OF ACCREDITATION

ASTM E661	Standard Test Method for Performance of Wood and Wood-Based Floor and Roof Sheathing Under Concentrated Static and Impact Loads
ASTM E783	Standard test method for field measurement of air leakage through installed exterior windows and doors
ASTM E935	Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings
ASTM E987	Standard test methods for deglazing force of fenestration products
ASTM E1105	Standard test method for field determination of water penetration of installed exterior windows, skylights, doors, and curtain walls, by uniform or cyclic static air pressure difference
ASTM E1186	Standard practices for air leakage site detection in building envelopes and air barrier systems
ASTM E1886	Standard test method for performance of exterior windows, curtain walls, doors, and impact protective systems impacted by missile(s) and exposed to cyclic pressure differentials
ASTM E1996	Standard specification for performance of exterior windows, curtain walls, doors, and impact protective systems impacted by windborne debris in hurricanes
ASTM E2068	Standard test method for determination of operating force of sliding windows and doors
ASTM E2268	Standard test method for water penetration of exterior windows, skylights, and doors by rapid pulsed air pressure difference
ASTM E2353	Standard Test Methods for Performance of Glazing in Permanent Railing Systems, Guards, and Balustrades
ASTM E2357	Standard Test Method for Determining Air Leakage Rate of Air Barrier Assemblies
ASTM F588	Standard test methods for measuring the forced entry resistance of window assemblies, excluding glazing impact
ASTM F842	Standard test methods for measuring the forced entry resistance of sliding door assemblies, excluding glazing impact
ASTM F2006	Standard Safety Specification for Window Fall Prevention Devices for Non-Emergency Escape (Egress) and Rescue (Ingress) Windows
ASTM F2090	Standard Specification for Window Fall Prevention Devices With Emergency Escape (Egress) Release Mechanisms
CSA A440-S1	American fenestration standard/specification for windows, doors, and skylights, includes update no. 1 (2013)



SCOPE OF ACCREDITATION

ICC 500	ICC/NSSA Standard for the Design and Construction of Storm Shelters, Large missile test per ASTM E1886 for a designed wind speed of 250 mph only
NHTSA / FMVSS 49 CFR 571.217 Standard No. 217	Bus Emergency Exits and Window Retention and Release
TAS 100A	Testing Application Standard (TAS) No. 100(A)-95 Test Procedure for Wind and Wind Driven Rain Resistance and/or Increased Windspeed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation System Installed at the Ridge area
TAS 201	Impact test procedures
TAS 202	Criteria for testing impact & nonimpact resistant building envelope components using uniform static air pressure
TAS 203	Criteria for testing products subject to cyclic wind pressure loading
WDMA 1.S.11	Architectural wood flush doors

AAMA: American Architectural Manufacturers Association

CSA: Canadian Standards Association

TAS: Testing Application Standards (Miami-Dade County Protocol)

WDMA: Window and Door Manufacturer Association